

FIG. 1

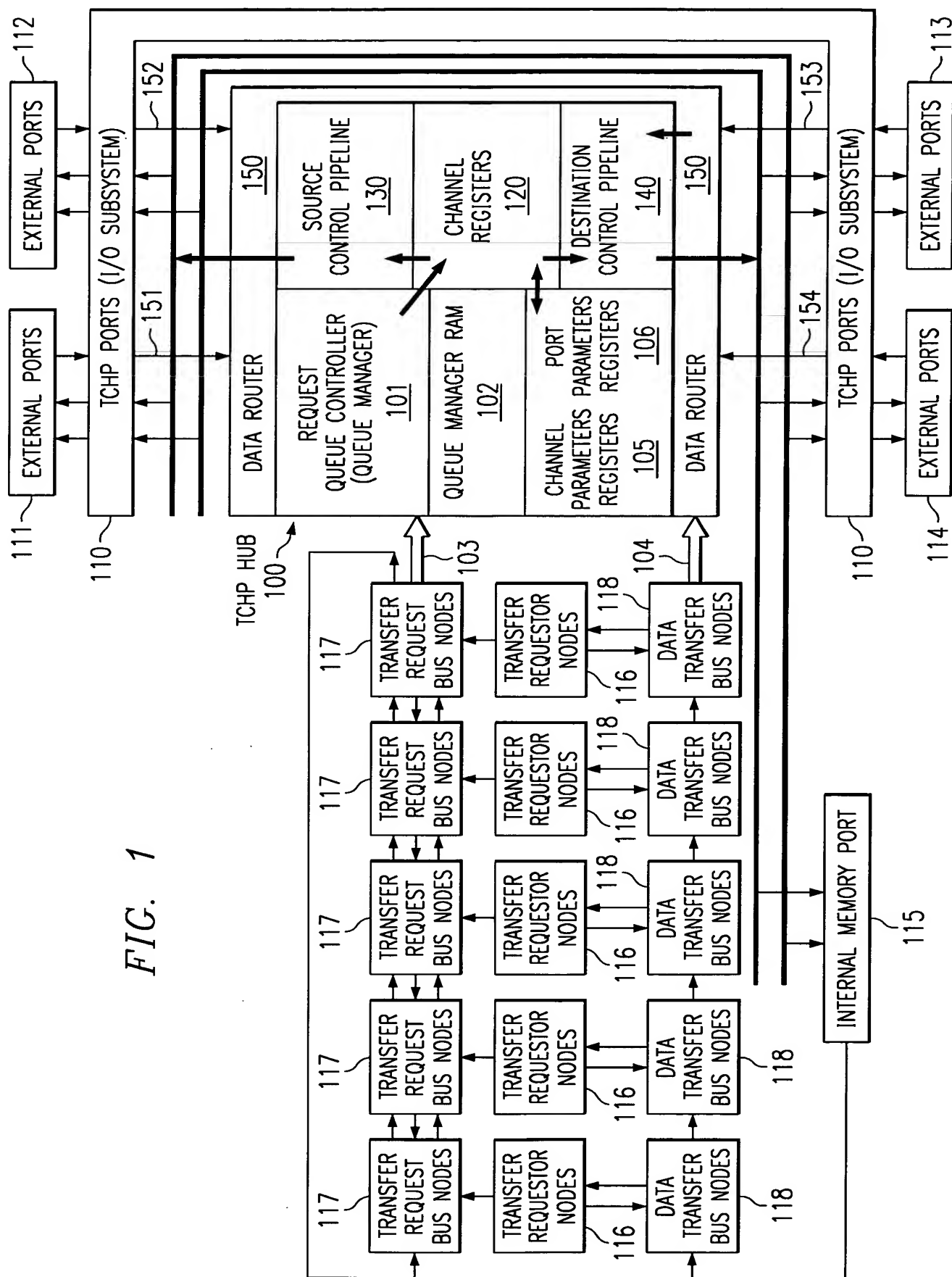


FIG. 2

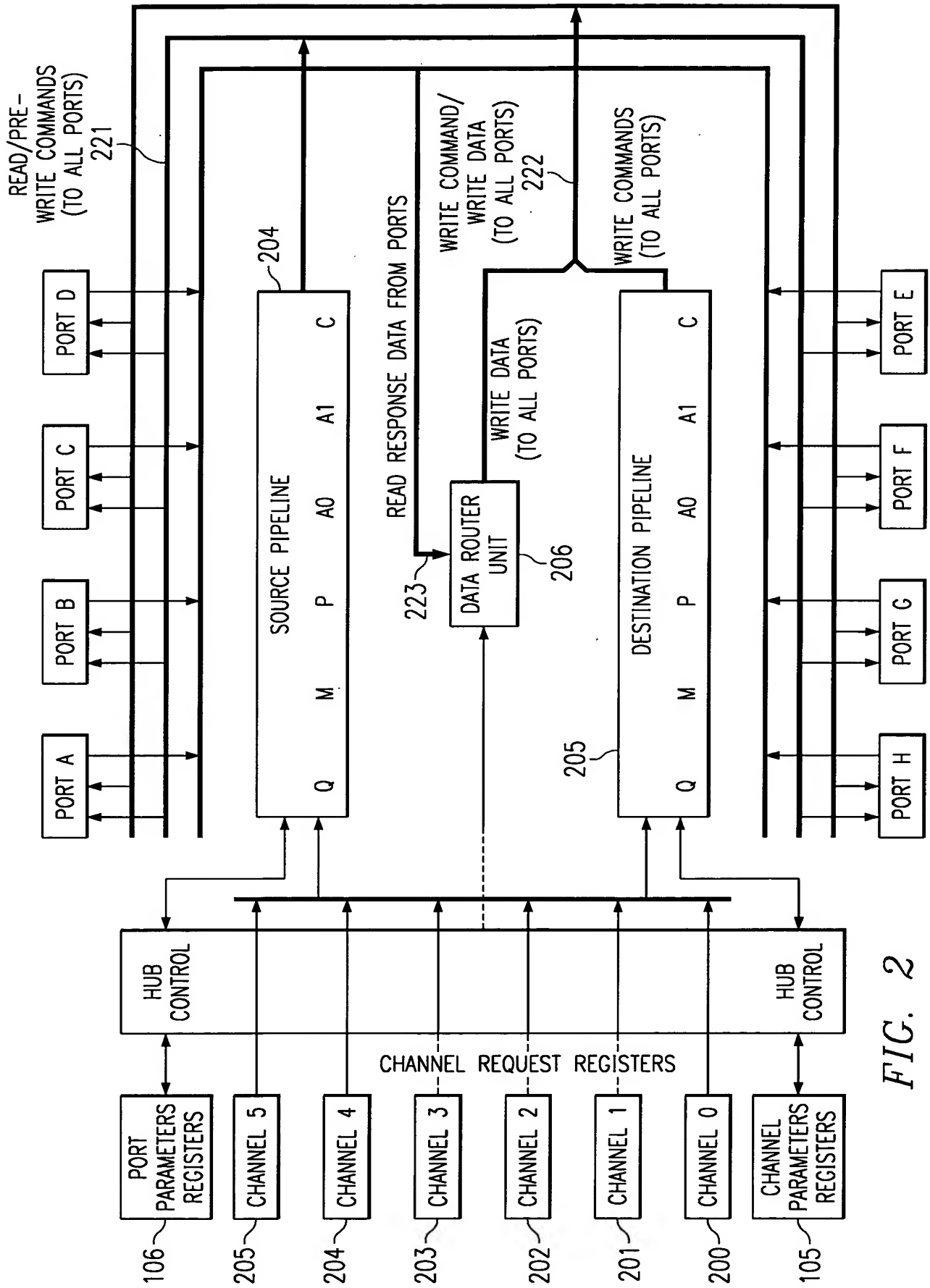
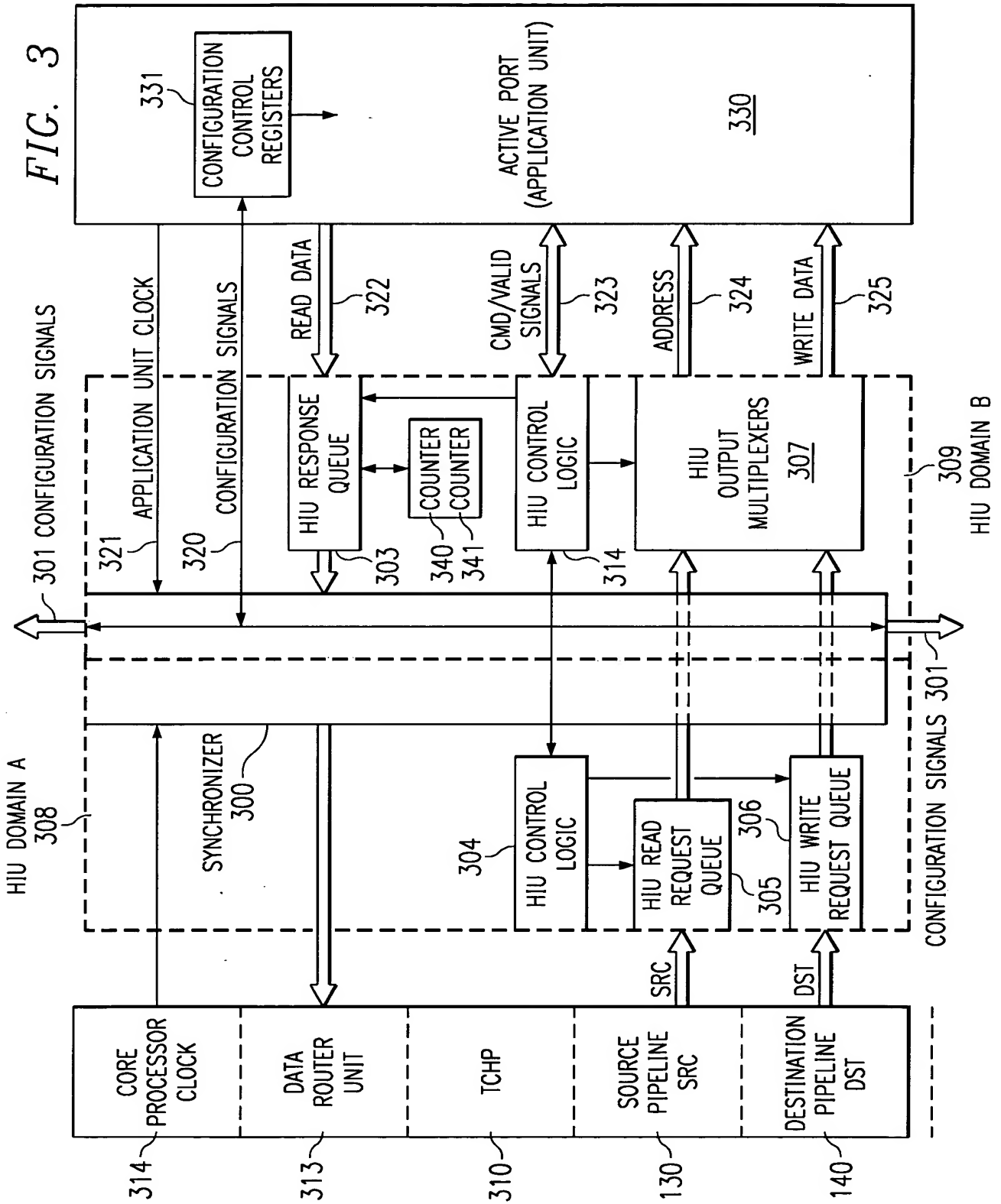
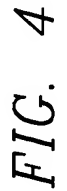


FIG. 2





The diagram illustrates a TCMP system 100. It includes a **SOURCE PORT** (509) and a **TRANSFER REQUEST INTERFACE TR BUS** (117). The **TRANSFER REQUEST INTERFACE TR BUS** (117) receives an external input and sends a **READ COMMAND** (508) to the **SOURCE PORT** (509). The **SOURCE PORT** (509) sends **READ DATA** (511) to the **TRANSFER REQUEST INTERFACE TR BUS** (117). The **TRANSFER REQUEST INTERFACE TR BUS** (117) also sends a **REQUEST** (501) to the **ACTIVE PORT (DESTINATION PORT)** (411). The **TRANSFER REQUEST INTERFACE TR BUS** (117) is connected to a **TCMP HUB** (130) and a **DATA ROUTER** (150). The **TCMP HUB** (130) contains a **SOURCE PIPELINE SRC** (130) and a **DESTINATION PIPELINE DST** (140). The **DATA ROUTER** (150) sends **READ DATA** (514) to the **TCMP HUB** (130). The **TCMP HUB** (130) sends a **PRE-WRITE COMMAND** (504) to the **ACTIVE PORT (DESTINATION PORT)** (411). The **ACTIVE PORT (DESTINATION PORT)** (411) sends an **ACKNOWLEDGEMENT** (513) to the **TRANSFER REQUEST INTERFACE TR BUS** (117). The **ACTIVE PORT (DESTINATION PORT)** (411) is connected to a **HUB INTERFACE UNIT HIU** (505). The **HUB INTERFACE UNIT HIU** (505) sends a **WRITE COMMAND** (512) to the **ACTIVE PORT (DESTINATION PORT)** (411).

The diagram illustrates the architecture of a TCMP system. At the top, the **TRANSFER REQUEST INTERFACE TR BUS** (117) provides input to the **TRANSFER REQUEST** (604) and the **CHANNEL REGISTERS** (120). The **TRANSFER REQUEST** (604) is sent to the **DESTINATION PORT** (609) and the **WRITE DATA** (613) is sent to the **DESTINATION PIPELINE DST** (140). The **CHANNEL REGISTERS** (120) output to the **SOURCE PIPELINE SRC** (130) and the **DESTINATION PIPELINE DST** (140). The **SOURCE PIPELINE SRC** (130) and **DESTINATION PIPELINE DST** (140) are connected to the **DATA ROUTER** (150). The **DATA ROUTER** (150) is connected to the **PUSH HIU HUB INTERFACE UNIT** (505). The **PUSH HIU HUB INTERFACE UNIT** (505) is connected to the **ACTIVE PORT (SOURCE PORT)** (411). The **ACTIVE PORT (SOURCE PORT)** (411) sends **READ COMMAND POSTED** (610) to the **PUSH HIU HUB INTERFACE UNIT** (505) and receives **READ DATA** (611) from it. The **PUSH HIU HUB INTERFACE UNIT** (505) also sends **READ DATA** (621) to the **DATA ROUTER** (150). The **DATA ROUTER** (150) is connected to the **TCMP HUB** (100). The **TCMP HUB** (100) is connected to the **DESTINATION PORT** (609) and the **WRITE DATA** (613). The **TCMP HUB** (100) also sends **READ COMMAND** (608) to the **PUSH HIU HUB INTERFACE UNIT** (505).

FIG. 7

FIG. 7

